



DMX Channel Sheet



from software version 1.02
(Instruction version 1.01)



**GERMAN LIGHT
PRODUCTS**

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DMX Channels

Normal-Mode 18 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse	0 .. 540°		0..255	00..FF	0..100
2) PAN-fine	High- Pos ... High- Pos + 2,6° (16 Bit)		0..255	00..FF	0..100
3) Tilt- coarse	0 .. 280°		0..255	00..FF	0..100
4) Tilt-fine	High- Pos ... High- Pos + 1,2° (16 Bit)		0..255	00..FF	0..100
5) Color (fixed)	Colors adjustable via RGB		0..7	00..07	0..2,5
	Color 01 - Red		8..15	08..0F	3..5,5
	Color 02 - Amber		16..23	10..17	6..8,5
	Color 03 – Yellow warm		24..31	18..1F	9..12,5
	Color 04 - Yellow		32..39	20..27	13..15,5
	Color 05 – Green		40..47	28..2F	16..18,5
	Color 06 – Turquoise		48..55	30..37	19..21,5
	Color 07 – Cyan		56..63	38..3F	22..24,5
	Color 08 - Blue		64..71	40..47	25..27,5
	Color 09 - Lavender		72..79	48..4F	28..30,5
	Color 10 - Malve		80..87	50..57	31..34,5
	Color 11 – Magenta		88..95	58..5F	35..37,5
	Color 12 - Pink		96..103	60..67	38..40,5
	White - CTO	Color temp. 3200K	104..111	68..6F	41..43,5
	White	Color temp. 5600K	112..119	70..77	44..46,5
	White – CTB	Color temp. 7200K	120..127	78..7F	47..49,5
	Rainbow Effect Stop		128	80	50
	Rainbow Effect	slow - fast	129..223	81..DF	51..88
6) Red	Color mixing system - Red	0 - 100%	0..255	00..FF	0..100
7) Green	Color mixing system - Green	0 - 100%	0..255	00..FF	0..100
8) Blue	Color mixing system - Blue	0 - 100%	0..255	00..FF	0..100
9) Shutter	Shutter closed		0..15	00..0F	0..5,5
	Shutter pulse random	slow – fast	16..47	10..2F	6..18,5
	Shutter ramp up	slow – fast	48..79	30..4F	19..31
	Shutter ramp down	slow – fast	80..111	50..6F	32..43
	Shutter ramp up/down	slow – fast	112..143	70..8F	44..56
	Random strobe	slow – fast	144..159	90..9F	57..62
	Strobe effect pause	5s ... 0,1s	160..199	A0..C7	63..77
	Strobe effect slow - fast	1 Hz .. 25 Hz	200..241	C8..F1	78..95
	Shutter open		242..255	F2..FF	96..100
10) Dimmer	Dimmer	0% - 100%	0..255	0..FF	0..100
11) Color temp.	No color temperature correction		0..7	0..07	0..2,5
	Continuous color temperature correction between 7200k - 3200k	Applicable for ALL colors ⁵⁾	8..255	08..FF	3..100
12) Special	RESET 1		250..253	FA..FC	98..99
	RESET 2		254..255	FD..FF	100

13) Movement	No movement		0	0	0
	Movement	Size	Phase		
	PAN	1	0°		01..01
		1	90°		02..03
		1	180°		04..05
		1	270°		06..07
	PAN	2	0°		08..09
		2	90°		10..11
		2	180°		12..13
		2	270°		14..15
	PAN	3	0°		16..17
		3	90°		18..19
		3	180°		20..21
		3	270°		22..23
	PAN	4	0°		24..25
		4	90°		26..27
		4	180°		28..29
		4	270°		30..31
	TILT	size / phase see also PAN	32..63	20..3F	13..25
	PAN / TILT	size / phase see also PAN	64..95	40..5F	26..37
	PAN / TILT (inverse)	size / phase see also PAN	96..127	60..7F	38..50
	Circle	size / phase see also PAN	128..159	80..9F	51..62
	Circle (inverse)	size / phase see also PAN	160..191	A0..BF	63..75
	Lying eight	size / phase see also PAN	192..223	C0..DF	76..87
	Random movement	size see also PAN	224..255	E0..FF	88..100
14) Speed Pan/Tilt	Pan/Tilt relative movement		0..1	00..01	0..0,5
	Pan/Tilt slow – fast Use this channel 14) also for the speed of the movements (channel 13).	Pan Min. 540° Pan Max. 540° Tilt Min. 280° Tilt Max. 280°	2..255	02..FF	1..100
15) Zoom	Super Beam	3°	0 .. 4	00..04	0..1
	Spot - Flood	7° - 60°	5 .. 255	05..255	2..100
16) Focus	Hard - Soft	0 – 100%	0 .. 255	0..FF	0..100
17) Shaper Size	Open - Close	0 - 100%	0..255	00..FF	0..100
18) Beam Shaper	Rotate	0° - 200°	0..255	00..FF	00..100

Compress-Mode 14 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse	0 .. 540°		0..255	00..FF	0..100
2) PAN-fine	High- Pos ... High- Pos +(16 Bit)		0..255	00..FF	0..100
3) Tilt- coarse	0 .. 280°		0..255	00..FF	0..100
4) Tilt-fine	High- Pos ... High- Pos + (16 Bit)		0..255	00..FF	0..100
5) Color (fixed)	Colors adjustable via RGB		0..7	00..07	0..2,5
	Color 01 - Red		8..15	08..0F	3..5,5
	Color 02 - Amber		16..23	10..17	6..8,5
	Color 03 - Yellow warm		24..31	18..1F	9..12,5
	Color 04 - Yellow		32..39	20..27	13..15,5
	Color 05 - Green		40..47	28..2F	16..18,5
	Color 06 - Turquoise		48..55	30..37	19..21,5
	Color 07 - Cyan		56..63	38..3F	22..24,5
	Color 08 - Blue		64..71	40..47	25..27,5
	Color 09 - Lavender		72..79	48..4F	28..30,5
	Color 10 - Malve		80..87	50..57	31..34,5
	Color 11 - Magenta		88..95	58..5F	35..37,5
	Color 12 - Pink		96..103	60..67	38..40,5
	White - CTO	Color temp. 3200K	104..111	68..6F	41..43,5
	White	Color temp. 5600K	112..119	70..77	44..46,5
	White - CTB	Color temp. 7200K	120..127	78..7F	47..49,5
	Rainbow Effect Stop		128	80	50
	Rainbow Effect	slow - fast	129..223	81..DF	51..88
6) Red	Color mixing system - Red	0 - 100%	0..255	00..FF	0..100
7) Green	Color mixing system -Green	0 - 100%	0..255	00..FF	0..100
8) Blue	Color mixing system - Blue	0 - 100%	0..255	00..FF	0..100
9) Shutter	Shutter closed		0..15	00..0F	0..5,5
	Shutter pulse random	slow – fast	16..47	10..2F	6..18,5
	Shutter ramp up	slow – fast	48..79	30..4F	19..31
	Shutter ramp down	slow – fast	80..111	50..6F	32..43
	Shutter ramp up/down	slow – fast	112..143	70..8F	44..56
	Random strobe	slow – fast	144..159	90..9F	57..62
	Strobe effect pause	5s ...0,1s	160..199	A0..C7	63..77
	Strobe effect slow - fast	1 Hz .. 25 Hz	200..241	C8..F1	78..95
	Shutter open		242..249	F2..F9	95,5..96,5
	RESET 1	Only Head	250	FA	97
	RESET 2	All Funktionen	251	FB	98
	Shutter open		252..255	FC..FF	99..100
10) Dimmer	Dimmer	0% - 100%	0..255	0..FF	0..100
11) Zoom	Super Beam	3°	0 .. 4	00..04	0..1
	Spot - Flood	7° - 60°	5 .. 255	05..255	2..100
12) Focus	Hard - Soft	0 – 100%	0 .. 255	0..FF	0..100
13) Shaper Size	Open - Close	0 - 100%	0..255	00..FF	0..100
14) Beam Shaper	Rotate	0° - 200°	0..255	00..FF	00..100

High Resolution (Extended)-Mode 24 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse	0 .. 540°		0..255	00..FF	0..100
2) PAN-fine	High- Pos ... High- Pos + (16 Bit)		0..255	00..FF	0..100
3) Tilt- coarse	0 .. 280°		0..255	00..FF	0..100
4) Tilt-fine	High- Pos ... High- Pos + (16 Bit)		0..255	00..FF	0..100
5) Color (fixed)	Colors adjustable via RGB		0..7	00..07	0..2,5
	Color 01 - Red		8..15	08..0F	3..5,5
	Color 02 - Amber		16..23	10..17	6..8,5
	Color 03 - Yellow warm		24..31	18..1F	9..12,5
	Color 04 - Yellow		32..39	20..27	13..15,5
	Color 05 - Green		40..47	28..2F	16..18,5
	Color 06 - Turquoise		48..55	30..37	19..21,5
	Color 07 - Cyan		56..63	38..3F	22..24,5
	Color 08 - Blue		64..71	40..47	25..27,5
	Color 09 - Lavender		72..79	48..4F	28..30,5
	Color 10 - Malve		80..87	50..57	31..34,5
	Color 11 - Magenta		88..95	58..5F	35..37,5
	Color 12 - Pink		96..103	60..67	38..40,5
	White - CTO	Color temp. 3200K	104..111	68..6F	41..43,5
	White	Color temp. 5600K	112..119	70..77	44..46,5
	White - CTB	Color temp. 7200K	120..127	78..7F	47..49,5
	Rainbow Effect Stop		128	80	50
	Rainbow Effect	slow - fast	129..223	81..DF	51..88
6) Red- coarse	Color mixing system – Red	0 - 100%	0..255	00..FF	0..100
7) Red-fine	Color mixing system – Red-low		0..255	00..FF	0..100
8) Green- coarse	Color mixing system – Green	0 - 100%	0..255	00..FF	0..100
9) Green- fine	Color mixing system – Green-low		0..255	00..FF	0..100
10) Blue- coarse	Color mixing system – Blue	0 - 100%	0..255	00..FF	0..100
11) Blue-fine	Color mixing system – Blue-low		0..255	00..FF	0..100
12) Shutter	Shutter closed		0..15	00..0F	0..5,5
	Shutter pulse random	slow – fast	16..47	10..2F	6..18,5
	Shutter ramp up	slow – fast	48..79	30..4F	19..31
	Shutter ramp down	slow – fast	80..111	50..6F	32..43
	Shutter ramp up/down	slow – fast	112..143	70..8F	44..56
	Random strobe	slow – fast	144..159	90..9F	57..62
	Strobe effect pause	5s ...0,1s	160..199	A0..C7	63..77
	Strobe effect slow - fast	1 Hz .. 25 Hz	200..241	C8..F1	78..95
	Shutter open		242..255	F2..FF	96..100
13) Dimmer-coarse	Dimmer	0% - 100%	0..255	0..FF	0..100
14) Dimmer- fine	Dimmer low		0..255	0..FF	0..100
15) Color temp.	No color temperature correction		0..7	0..07	0..2,5
	Continuous color temperature correction between 7200k - 3200k	Applicable for ALL colors ⁵⁾	8..255	08..FF	3..100

16) Special	RESET 1		250..253	FA..FC	98..99
	RESET 2		254..255	FD..FF	100
17) Zoom coarse	Super Beam	3°	0 .. 4	00..04	0..1
	Spot - Flood	7° - 60°	5 .. 255	05..255	2..100
18) Zoom fine	Zoom low	(0% - 100%)	0..255	0..FF	0..100
19) Focus coarse	Hard - Soft	0% – 100%	0 .. 255	0..FF	0..100
20) Focus fine	Focus low	(0% - 100%)	0..255	0..FF	0..100
21) Shaper Size coarse	Open - Close	0 - 100%	0..255	00..FF	0..100
22) Shaper Size fine	Shaper low	(0% - 100%)	0..255	00..FF	00..100
23) Beam Shaper coarse	Rotate	0° - 200°	0..255	00..FF	00..100
24) Beam Shaper fine	Iris low	(0% - 100%)	0..127	00..7F	00..50

Locking and unlocking the Control Panel

The Display will auto lock automatically if the Touch Panel will not use for 10s. To unlock the Touch Panel you have to press one of the menu buttons for 2s..

¹⁾ Colors

The predefined colors can be used as start colors for the Rainbow effect. First select a desired start color, then activate the rainbow effect. All **Impression Wash One** will then begin from that color and execute the rainbow effect synchronously. Different **Impression Wash One** can have different start colors but will still execute the rainbow effect synchronously. If you choose a color different from the ones marked with ¹⁾ in the tables above the rainbow start-color will be red.

²⁾ Rainbow-effect Stop

will pause this function. After resuming the rainbow-effect will be continued with the current color.

³⁾ The Rainbow-effect

will run synchronously only if it is started from one of the predefined colors (see also ¹⁾ before).

⁴⁾ Attention:

Please note that shutter frequencies over 10 Hz are prohibited in some countries. Especially frequencies in the range of 5 - 12 Hz can possibly cause epileptic seizures → continuous blink irritation with a latency period of min. 70 ms. Please also refer to the relevant legislation of each country (For Germany for example: BGI 810-4 (Anhang 2) "Sicherheit bei Produktionen und Veranstaltungen - Scheinwerfer").

⁵⁾ Color Temperature

At anytime the **Impression Wash One** can be used the color correction for every RGB color.

